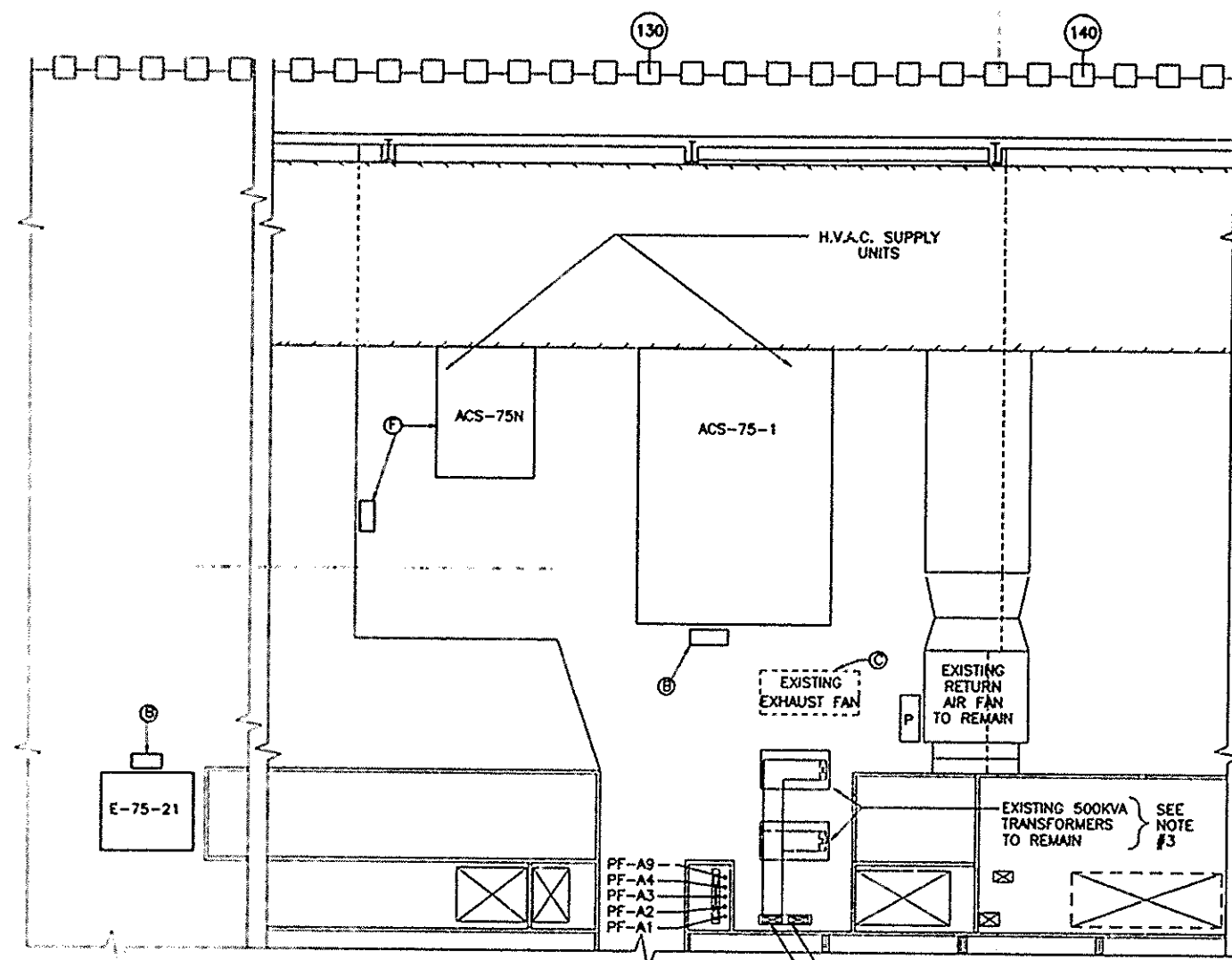
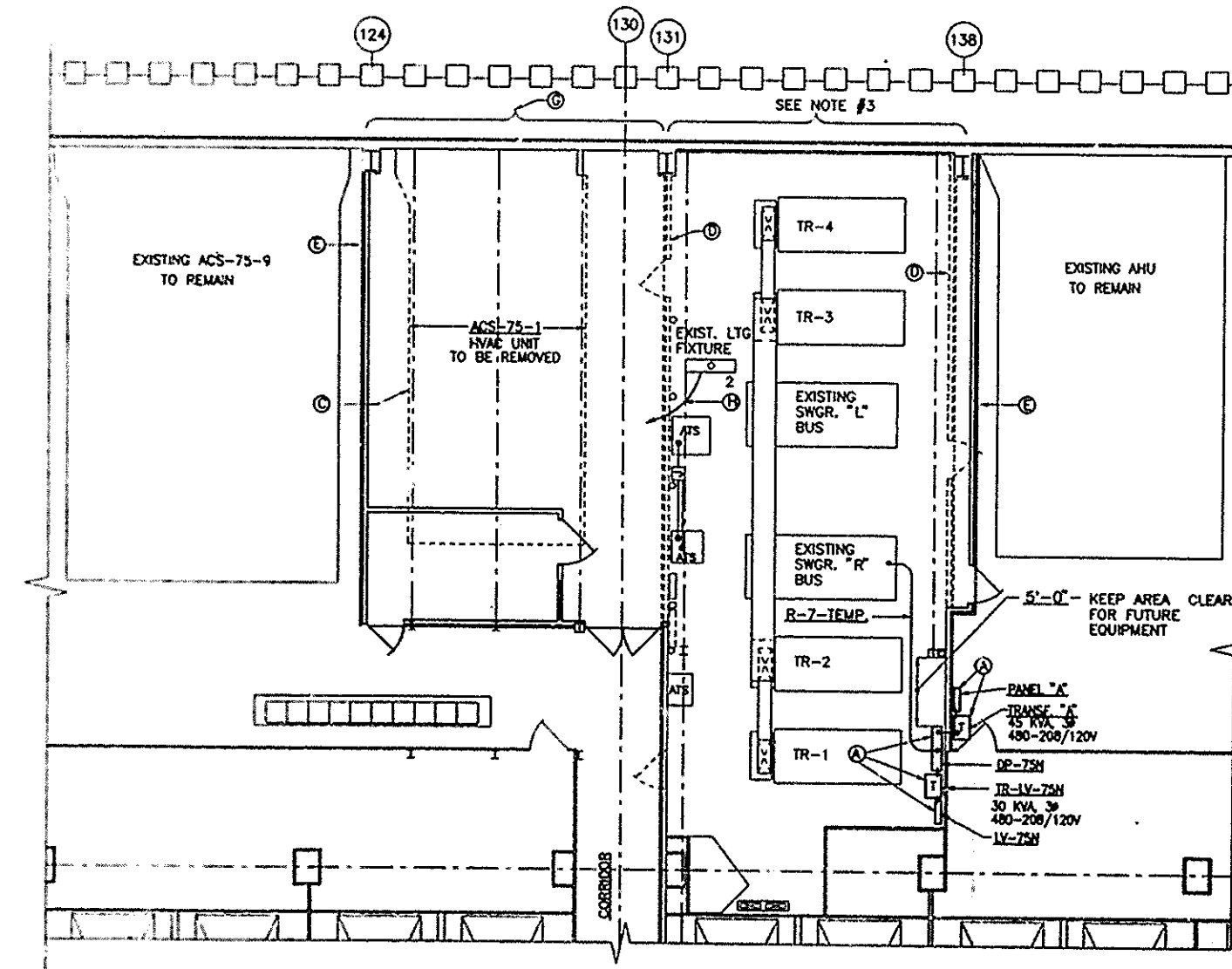


PL-SST REV 3



PLAN - 76th FL. - SS-75N  
(OTHER SUBSTATIONS SIMILAR)



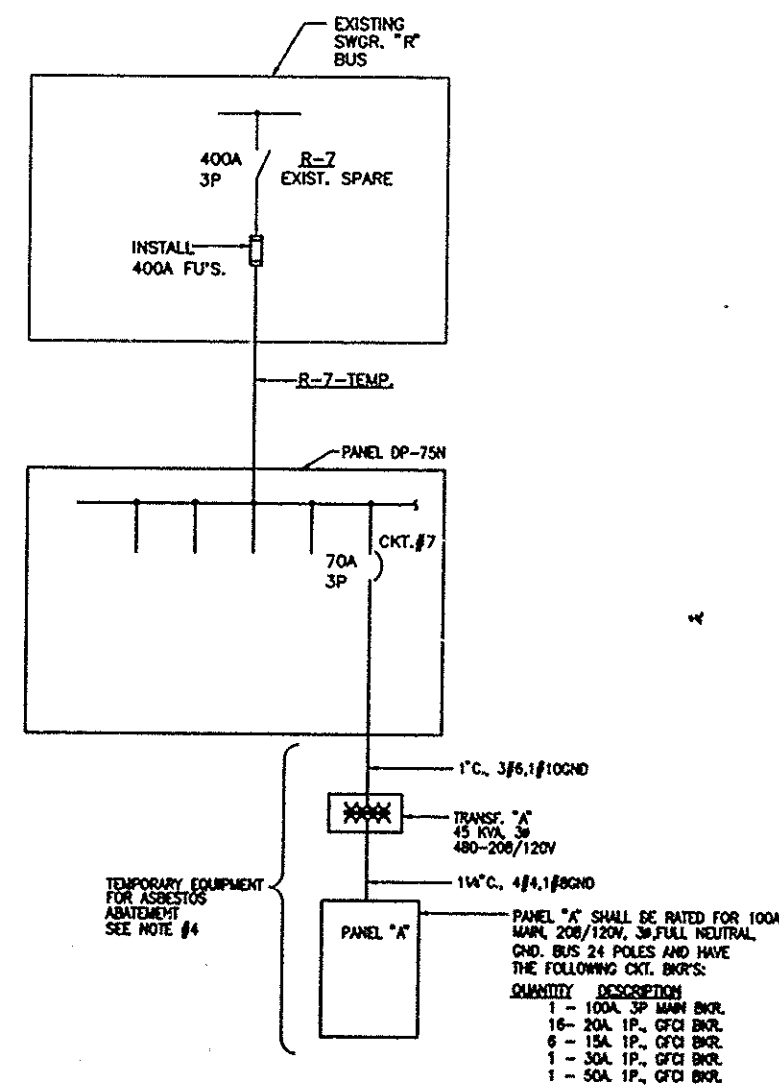
PLAN - 75th FL. - SS-75N  
(OTHER SUBSTATIONS SIMILAR)

### NOTES

1. FOR LEGEND SEE DWG. #E-1, FOR GENERAL NOTES, ABBREVIATIONS AND LIGHTING FIXTURE SCHEDULE SEE DWG. E-2.
2. THIS DRAWING TOGETHER WITH DWG. #CS-1 DESCRIBES IN GENERAL THE STAGE I SEQUENCE OF INSTALLATION FOR A TYPICAL SUBSTATION. (FOR DETAILS SEE INDIVIDUAL SUBSTATION DRAWINGS.)
3. THE EXISTING SUBSTATION MUST REMAIN IN SERVICE DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE PROPER SHIELDING TO PROTECT AGAINST DAMAGE AND PREVENT DUST FROM ENTERING ELECTRICAL EQUIPMENT.
4. FURNISH AND INSTALL TEMPORARY POWER EQUIPMENT FOR ASBESTOS ABATEMENT AS SHOWN IN ONE LINE DIAGRAM "A". THE CONTRACTOR SHALL DISCONNECT ALL TEMPORARY EQUIPMENT INCLUDING CONDUIT AND WIRE UPON COMPLETION OF ABATEMENT. EQUIPMENT MAY BE RE-USED AT OTHER SUBSTATIONS.
5. ALL ELECTRICAL OUTAGES SHALL BE PERFORMED OUTSIDE NORMAL OPERATING HOURS. SEE SPECIFICATIONS, DIVISION 1 ENTITLED "CONDITIONS AND PRECAUTIONS" FOR DESCRIPTION OF ELECTRICAL POWER OUTAGE CATEGORIES.

### SCHEDULE - SEQUENCE OF INSTALLATION - STAGE I (SEE NOTE #2)

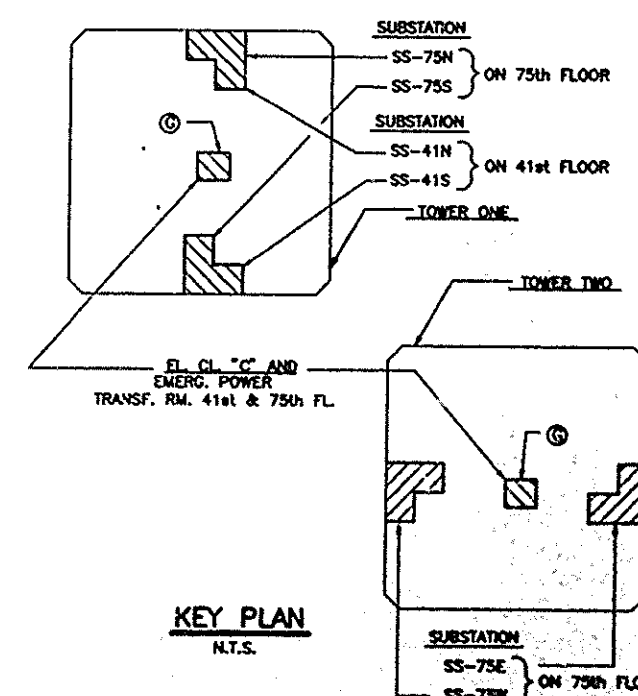
STEP	DESCRIPTION OF WORK	OUTAGE AT SUBSTATION (SEE NOTE #5)	REMARKS
1	INSTALL PANEL DP-75N WITH TEMPORARY FEEDER, 30KVA, 480-208/120 VOLT TRANSFORMER AND PANEL LV-75N. (PROVIDE TEMPORARY POWER FOR ASBESTOS ABATEMENT, SEE ONE LINE DIAGRAM "A")	- 0 -	TEMPORARY FEEDER FROM SPARE CKT. BKR. AT EXIST. SWITCHGEAR TO DISTRIBUTION PANEL.
2	INSTALL ELECTRICAL EQUIPMENT FOR REPLACEMENT HVAC UNIT ACS-75-1 & REPLACEMENT RETURN FAN E-75-21 WITH POWER FROM PANEL DP-75N.	- 0 -	SEE DWG. #E-108
3	REMOVE ELECTRICAL EQUIPMENT FOR EXISTING HVAC UNIT ACS-75-1, & EXH. FAN E-75-21.	- 0 -	
4	REMOVE AND/OR RELOCATE ELECTRICAL EQUIPMENT ON WALLS BEING REMOVED AND IN THE WAY OF STAGE II & III EQUIPMENT.	- 0 -	
5	INSTALL OR RELOCATE ELECTRICAL EQUIPMENT ON WALLS, CEILINGS, ETC.	- 0 -	
6	INSTALL ELECTRICAL EQUIPMENT FOR REPLACEMENT HVAC UNIT ACS-75-N WITH POWER FROM PANEL DP-75N.	- 0 -	
7	INSTALL 150 KVA TRANSFORMER IN EMERGENCY POWER TRANSFORMER ROOM WITH ASSOCIATED EQUIPMENT.	- B -	EMERG. LTG., 32 FLOORS SEE KEY PLAN FOR LOCATION OF EMERG. POWER TRANSFORM. ROOM.
8	INSTALL TEMPORARY LIGHTING.	- 0 -	



ONE LINE DIAGRAM "A"  
TYPICAL FOR ALL SUBSTATIONS EXCEPT SS-41S

I HEREBY CERTIFY THAT THIS IS A TRUE AND CORRECT COPY OF ONE OF THE CONTRACT DRAWINGS CONSTITUTING A PART OF CONTRACT NO. WTC-802.071 IN THE FORM IN WHICH SAID DRAWINGS EXISTED AT THE TIME THE SAID CONTRACT WAS EXECUTED BY THE PARTIES.

DATE 6/21/95 S. Sultan, A. Aslan  
DATE 8/15/95 P. K. Sweeney  
SPEC. WRITER  
ENGINEER OF DESIGN



KEY PLAN  
N.T.S.

Sheet 90 of 224

THE PORT AUTHORITY  
OF NY & NJ

Peter K. Sweeney  
ENGINEERING PROGRAM MANAGER  
WORLD TRADE CENTER  
SENIOR ELECTRICAL ENGINEER

Engineering Department  
Design Divisions  
The World Trade Center  
Electrical/HVAC  
Upgrade Program

TOWER ONE AND TWO  
LOW VOLTAGE  
SUBSTATIONS  
CONSTRUCTION AND  
INSTALLATION  
ELECTRICAL  
TYPICAL SUBSTATION  
STAGE I  
CONSTRUCT  
SUBSTATION ROOM

No. Date Revision Approved  
This drawing subject to conditions in contract. All inventions, ideas, designs and methods herein are reserved to Port Authority and may not be used without its written consent.  
ROZMAN ROZMAN  
Designed by Drawn by Checked by  
Date 5-1-95 Scale AS NOTED  
Contract Number Drawing Number  
WTC 802.071 E-4